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Vol. 5, No. 11, Nov. 1955 ZA SCCIALISTICKOU VEDU A TECHNIKU TECHNOLOGY Preha, Czechoslovelia

So: East Europeon Accession, Vol. 5, No. 5, May 1956

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Technical and organizational measures as justification for standards of fuel and power consumption. p. 33.

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FREIBER(ER, R. The future development of Siberia and her power resources. p. 540, Vol 4, no. 5, 1956 SOVETSKA VEDA: ENERGETIKA Praha, Czechoslovakia

SOURCE: East European Accessions List (EFAL) Vol. 6, No. 4, April 1957

FREIBERGER, R.

FREILERGER, R. Importance of water power resources in the USSR. p. 621, Vol. 4, no. 6, 1956. SOVETSKA VEDA: ENERGETIKA Praha, Czechoslovakia

SOURCE: EAST EUROPEAN ACCESSIONS LIST (EEAL) VOL 6 NO 4 APRIL 1957

FREIBERGER, R., dr., inz.

Some general features of the balance method, and their application on thermal balances. Paliva 42 no.6:186-188 Je 62.

1. Energeticky ustav, Praha.

FREIBERGER, R., dr., inz.

Rationalization of power consumption from the viewpoint of technical development and power resources. Energetika Cz 11 no.12:633-637 D '61.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3"

PEREDY, Sandor; MONATH, Lajos; RAPELIUS, Karl (Leipzig); CALLENBERG, Waldemar (Leipzig); LIPKA, Ceslav (Praha); FREIBERGER, Rudolf, dr. ing. (Praha); SCHENKEL, Gerhard, dr. ing. (Karlsruhe); MIKUISKI, Jan, dr. ing. (Katowice); FRATZSCHER, Wolfgang, dr. ing. (Drezda); BENEDEK, Istvan; CUKOR, Gyorgy; SAGI, Marton; SOVARY, Emil; NAGY, Csaba (Roman Nepkoztarsasag); ELEFTERESCU, M. (Roman Nepkoztarsasag); KOVACS, Istvan (Roman Nepkoztarsasag); LAZAR, Peter, dr.; MEJRO, Cz., prof. (Varso); KOKOVAY, Janos, dr.; SCHAEFER, Helmuth, dr. ing. (Karlsruhe); BORBAS, Nandor; GRUHN, Gunther, Dipl. ing. (Drezda); SZABO, Bendeguz; GYORI, Attiln; MOLNAR, Laszlo; RECZEY, Gusztav, dr.

Determination and application of specific power utilization indexes. Tpari energia 3 no.1/2:15-22 Ja-F '62.

1. Koho- es Gepipari Miniszterium Ipargazdasagi es Uzemszervezesi Intezete (for Peredy). 2. Obudai Hajogyar (for Monath).
3. Orszagos Energiagazdalkodasi Hatosag (for Benedek and Reczey).
4. Magyar Tudomanyos Akademia Kozgazdasagtudomanyi Intezete (for Cukor and Sagi). 5. Eromu Tervezo Iroda (for Sovary). 6. Konnyuipari Miniszterium (for Kokovay). 7. Voros Csillag Traktorgyar
(for Borbas). 8. Kobanyai Muanyaggyar (for Szabo). 9. Koho- es
Gepipari Miniszterium Energiaosztaly (for Molnar).

FREIBERGER, Rudolf, dr. inz.

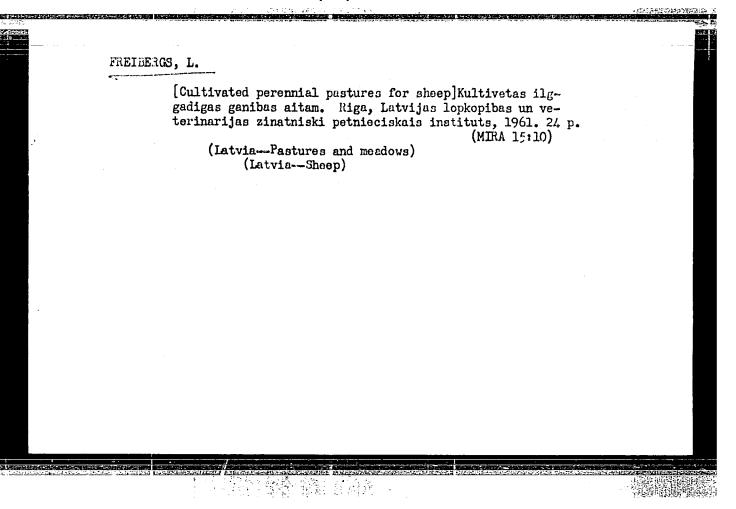
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1. Research Institute of Power Engineering, Prague.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3"

FREIBERGS, L.; EGIE, A., red.; CAKSS, J., tekhn. red.

[Latvian blackhead sheep are good reat producers] Latvijas tumsgalvu aitas - labas galas razotajas. Riga, Latvijas Valsts izdevniecība, 1961. 37 p. (MIRA 15:3) (Latvia—Sheep breeds)



FREIDS, N.

Ivanov, G. Improvement of rationalizers in surveying coal deposits. p. 86. MINMO DELO, Sofiya, Vol. 10, no. 1, Jan./Feb. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

KULL,E; FREIDIN,P., red.; LAUL, Ü., tekhn. red.

[Planning in industrial enterprises] Planeerimine toöstusettevõtetes. Tallinn, Eesti Riiklik Kirjastus, 1962. 335 p.

(MIRA 16:12)

(Industrial management)

Rearrangement of radicals in solutions. Analele chimie 17 no.3:131-174 J1-S '62.

RUMANIA / Chemical Technology. Chemical Products and Their Application. Fats and Oils. Waxes. Soapsand Detergents. Flotation Agents.

Abs Jour: Ref Zhur-Khimiya, No 12, 1959, 43841.

Author : Freier B., Constantinescu F.

: Hydrogenation of the Extracted Sunflower Oil in the Hydrogenation Plant Provided with the Circu-Inst Title

lation of 011 in Hydrogen.

Orig Pub: Lucrarile Inst. cercetari aliment., 1958, 2, 91-97.

Abstract: Hydrogenation (H) of sunflower oil, that was obtained by extraction with benzene, when conducted in installations of the Vil'bushevich type, presents considerable difficulties. For the purpose of developing optimum conditions for H, oil samples of different degree of refining were subjected to

Card 1/2

RUMANIA / Chemical Technology 2000 nemicial Products and Abs Jour: Ref Zhur-Khimi...

RUMANIA / Chemical Technology 2000 nemicial Reposition Agents. Waxes. Soap-

PPROVE Ref Zhur-Khimiya, No 12, 1959, 43841.

Abstract: H. Conditions for oil refining and for H were investigated. It was established that a highly refined oil (up to the bleaching operation) should be employed for H. The refining of oil prior to H should include treatment with charcoal to be used in the quantity of 0.7% basis the weight of oil at in the quantity of 0.1% pasts the weight of the atmosphere of H2. This shortens time required for H and produces better results. Presented are tables that depict the effect of the degree of refining and of treatment with charcoal on the H process. -- V. Kraseva.

card 2/2

FREIMAN, K.

A contribution to the presence of hypernephroma in the paranasal sinuses. Cesk. otolar. 10 no.6:362-366 D *61.

1. Otorinolaryngologicka klinika hyg. fakulty KU v Praze 12, predn. prof. dr. V1. Hlavacek.

(PARANASAL SINUSES neoplasms)
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Considerations on the car technical maintenace system applied in Rumania. Rev transport 11 no.10x433-439 0 '64.

FREIMAN, L.I.; TITOV, V.A. (Moscow)

Diffusion of electrolytic hydrogen through iron plates, and the mechanism of hydrogen overvoltage on iron. Zhur.fiz.khin. 34 no.1:23-26 Ja '60. (MIRA 13:5)

(Hydrogen) (Overvoltage) (Iron)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3"

FREIMANF, Z.

Changes.

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Ecnthly Index of East European Accessions (17AI)LC. Vol. 7, no. 2, February 1958

FREIMANN, K.; SKOKAN, Z.V.

Retropharyngeal abscess with subluxation of the 2d cervical vertebra. Cesk. otolaryng. 11 no.2:115-118 Ap '62.

1. Otorinolaryngologicka klinika, prednosta prof. dr. Vl. Hlavacek, DrSc., a rentgenologicke oddeleni fakultni nemocnice v Praze 10, prednosta prof. dr. R. Blaha.

(PHARYIX diseases) (SPINE fract & disloc)

(ABSCESS case reports)

FREINDL, L.; NIEWODNICZANSKI, H.; NURZYNSKI, J.; SLAPA, M.; STRZALKOWSKI, A.

Elastic scattering of 12.8 MeV deuterons on some light nuclei.

Acta physica Pol 23 no.5:619-628 My '63.

No de propuestos aprilias de la companya de la comp

1. Institute of Nuclear Physics, Krakow.

FREINDL, L.; NIEWODNICZANSKI, H.; NURZYNSKI, J.; SLAPA, M.; STRZALKOWSKI, A.

Elastic scattering of 12.8 MeV deuterons on some light nuclei. Inst fiz jadr report no.203:1-19 '62.

1. Institut Fizyki Jadrowej, Krakow.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413620002-3

L 09211-67 ACC NR. AP7002755

SOURCE CODE: PO/0046/66/011/005/0359/0367

AUTHOR: Chwaszczewska, Janina--Khvashchevska, Ya.; Freindl, Ludwik--Frendl', L.; Karcz, Waldemar--Karch, V.; Przyborski, Wincenty--Priborski, V.; Slapa, Mieczyslaw

ORG: [Chwaszczewska; Przyborski] Institute of Nuclear Research, Swierk; [Freindl] Institute of Nuclear Physics, Krakow; [Karcz] Institute of Physics, Jagellonian University, Krakow; [Slapa] Central Laboratory for Radiological Protection, Warsaw

TITIE: Semiconductor system for charged particles identification

SOURCE: Nukleonika, v. 11, no. 5, 1966, 359-367

TOPIC TAGS: particle counter, radiation counter

ABSTRACT: A system consisting of two semiconductor counters of types dE/dx and E was built to separate particles from nuclear reactions. The properties of this system were checked by detection of products of reactions induced by 24.8 Mev alpha particles and 12.4 Mev deuterons on Au, C, and Ca nuclei. The authors thank Professor H. Niewodniczanski and Professor B. Buras for their interest in this work. The authors also thank Doctor K. Grotowski, Doctor A. Strzalkowski and Doctor A. Budzanowski for their advice and encouragement throughout the progress of this work. They give special thanks to Cyclotron Operation Staff for running the machine. Orig. art. has: 13 figures. [Orig. art. in Eng.] [NA]

SUB CODE: 18 / SUBM DATE: O9Dec65 / ORIG REF: 003 / OTH REF: 004

Card 1/1 YN

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1629

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CZECHOSLOVAKIA

FREIOVA, E.; Affiliation not given J.

"Alcoholism of Parents and Moral Impairment of Youngsters of School Age."

Prague, Ceskoslovenska Psychiatrie, Vol 62, No 3, Jun 66, pp 188 - 192

Abstract /Author's English summary modified 7: 516 families were investigated as a result of moral impairment found in a child of these families. The children were 9 to 16 years old. Alcoholism of one or both parents was found in 138 families, that is 26.7%. In 47 cases more than one child from the same family was found to be morally impaired. Out of these families 53.2% were alcoholics and each family had at least 3 children, the average being 3.92. Alcoholism usually reduced the educational level of the children. 9 Czech references. (Manuscript received 29 Apr 64).

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43

Combination of therapeutic and educational processes in children with psychopathic traits. Cesk. psychiat. 58 no.3:179-182 Je 162. 1. Detsky domov, Praha-Krc. (PSYCHOPATHIC PERSONALITY)

FREYSINGER, F.

MAPIS, K., BALO, J., FREISINGER, F.

Apoplexy and gastric ulcer. Orv. hetil. 91:26, 25 June 50. p. 805-5

1. First Pathological Anatomy and Experimental Cancer Research Institute (Head-Dr. Josef Balo), Budapest University,

CLEL 19, 5, Hov., 1950

F. FREISHMER, J. LORING

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3"

"Henal changes in multiplex myelomatosis." p. 425 (ACTA MORPHOLUTICA NOAL13620002-3"

SCIENTIARUM HUNGARICAE, Vol. 2, no. 4, 1952, Budapest, Hungary)

SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.

14.14.14.14.14.14.14.15

FREISINGER, F.; BIKALI, M.

Experimental data on etiology of ulcer disease. Acta morph. hung. 4 no.2:149-159 1954.

1. Institut fur Pathologische Anatomie und Experimentelle Krebsforschung der Medizinschen Universität, Budapest (Vorstad: Prof. J.Balc) (PEPTIC ULCER, exper. pathogen. in rabbits)

FREISINGER, P.; BIKALI, Magda

EESTROSE

A method for experimental production of chronic gastric ulcer. Acta morph. hung. 4 no.4:541-544 1954

1. I. Institut fur pathologische Anatomie und experimentalle Krebsforschung der Medizinischen Universitat, Budapest (Vorstand Prof. J.Balo)

(PEPTIC ULCER, exper. prod. in rabbits, method)

FREISLER, E. "Tasks of the Ore Mines in 1953. p. 1. (Rudy, Vol.1, No.1, Feb. 1953, Praha.)

ast European Accessions, Vol.3, No.3, Liberry of Congress, March 1954,

CATEGORY: Gom H-5
CATEGORY: Chemical Technology. Chemical Products and Their
Applications--Water treatment. Sewage.

ABS. JOUR.: AZKhim., No. 21 1950, No. 75296

NUTIOR : Freitag, R. Not given

TIILL: The Use of Algae in Sewage Treatment

ORIG. PUB.: Chem Rundschau, 11, No 13, 337 (1958)

ABSTRACT: The intensification of the purification of waste waters in the presence of algae can be traced to the fact that the evolution of oxygen by the plants leads to an intensification of the oxidation of organic impurities by bacteria. In turn the products of the decomposition of organic substances (CO₂, minerals) form a good culture medium for the growth of the algae. The wide could

ium for the growth of the algae. The wide application of this sewage treatment process is recom-

mended on the basis of USA experience.

K. Kandzas

CARD: 1/1

CADEK, Josef, inz., Dr.Sc.; FREIWILLIG, Rudolf, inz.; SIE SI SAN, inz., C.Sc.

Equilibrium of iron rich Fe-Cr-Mo-C alloys with carbon concentration of 0,35 per cent at 700° C. Hut listy 17 no.7:507-516 J1 '62.

1. Vyzkumny ustav hutnictvi zeleza, Praha.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3"

CZECH/34-59-7-14/22

AUTHORS: Mandl, Miroslav, Candidate of Technical Sciences, Ing., Kaše, Miloslav, Freiwillig, Rudolf, Ing., Dostál, Jan

Isolation of Non-Metallic Inclusions by the Method of TITLE:

Direct Chlorination and their Identification (Isolace

nekovových vměstků metodou přímé chlorace a jejich

identifikace)

PERIODICAL: Hutnické Listy, 1959, Nr 7, pp 617-620 (Czechoslovakia)

ABSTRACT: The isolation was effected by the method of direct chlorination based on the action of purified chlorine on steel or Fe-Si at temperatures of 450 and 800-850°C. The identification of the non-metallic inclusions was effected by colorimetric methods, except for the Si, for which the determination was by gravimetric methods, and for calcium, for which the determination was effected chelatometrically. A description is given of the instrument used and sketches of the apparatus are The processes of determina-

reproduced in Figs 1 and 2.

tion of various oxides are detailed in the article.

There are 9 figures, 1 table and 8 references, 1 of which is Czech, 4 English, 2 German, 1 Soviet.

ASSOCIATION: Výzkumný ústav hutnictví železa, Praha (Ferrous

Card 1/1 Metallurgy Research Institute, Prague)

CADEK, J.; FREIWILLIG, R.; DUPAL, O.

Reaction between carbide and mother metal in some steel alloys. Hut listy 16 no.12:874-885 D '61.

1. Vyzkumny ustav hutnictvi zeleza, Praha.

(Steel alloys) (Carbides)

33197

z/034/62/000/002/001/002

18 1152 1521 1418 4016

E073/E535

AUTHORS :

Cadek, Josef, Engineer, Candidate of Science

Cochnar, Zdenék, Engineer and Freiwillig, Rudolf,

Engineer

TITLE:

Equilibrium conditions of iron-rich Fe-Cr-V-C alloys

at carbon concentrations of 0 30% and a temperature

of 700°C

PERIODICAL: Hutnicke listy, no.2, 1962, 122-129

In another paper (which is in the process of publication in Hutnické listy) the authors and their team emphasize the importance of the study of the properties of the individual structural components and their mutual reactions from the point of view of developing refractory steels and alloys. The subject of this paper is the study of the isoconcentration section through the isothermic Fe-Cr-V-C tetrahedron for chromium concentrations between 0 and 16%, vanadium concentrations between 0 and 5% and a carbon concentration of 0.30% at the temperature of 700°C. The authors also studied the equilibrium conditions in the iron-rich alloys Fe-Cr-Mo-C and Fe-Cr-W-C; however, the results of this work will be the subject of separate papers. The iron-rich range of Card 1/6

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Equilibrium conditions of ...

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the Fe-Cr-V-C section for 0,20% C and a temperature of 700°C was studied by S,W,K,Shaw and A,G,Quarrell (Ref. 2: J,inst 185, 1957, no.4, 314). Relating to their results it is shown in this paper that doubts exist on whether an equilibrium state was achieved and whether the results of X-ray analysis of the isolated carbide The here given results phases were analysed critically enough, are intended as a contribution to the theoretical bases of the development of pearlite-ferrite, martensite and martensiteferrite high-temperature steels. The experiments were carried out with 20 mm rods forged from ingots weighing 1.2 kg produced in chill moulds and annealed for four hours at 700°C to improve machinability. The material was produced by smelting in a medium frequency 10 kg furnace, using as charge material the steel ČSN 12013 of the following composition: 0,10% C, 0,29% Mn; 0.02% Si, 0.014% P, 0.023% S, 0.09% Cu, 0.02% Ni, 0.02% Cr, The deoxidation was by silicomanganese followed by aluminium (0,05%), metallic chromium was added after deoxidation and then, after thorough mixing, carbon was added using a synthetic Fe-C alloy of the following composition: 4.38 C. 0.33% Mn. 0.02% Si, Card 2/6

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Equilibrium conditions of ave

Card 3/6

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0.018% P. 0.029% S, 0.13% Cu, 0.03% Ni and 0.11% Cr. Immediately afterwards vanadium was added in the form of ferrovanadium alloy After forging, the rods were air-cooled and the melt was teemed. and then annealed for four hours at 700°C. From these, 14 mm diameter x 32 mm cylinders were produced and sealed into quartz ampoules to prevent decarburization and annealed at 700°C +3°C for a duration of 5000 hours in a chamber furnace. specimens were air-cooled. Prior to isolating the carbides, a layer of 0.7 to 1 mm thick was removed so as to eliminate the influence of possible oxidation. In the tests the carbides were electrolytically isolated and subjected to microchemical analysis and X-ray analysis using $CrK\alpha_{1,2}$ radiation. Furthermore, microstructural analysis and hardness measurements were carried out. Investigation of the kinetics of the reaction of the carbide phase with the basic solid solution in Cr-V steels has shown that, even at 650°C, annealing for 5000 hours is sufficient for achieving an equilibrium state (Ref. 17; Z. Cochnar and J. Cadek. Research Report VÚHŽ, being prepared for publication). Therefore. the isoconcentration section through the isothermic Fe-Cr-V-C

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Equilibrium conditions of

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tetrahedron shown in Fig.1 represents the real equilibrium diagram. Direct comparison of the results with those of Shaw and Quarrell is possible only in single instances. As regards the dragram itself, comparison could not be carried out since the diagram of Shaw and Quarrell related to 0.20% C, whilst the here given results relate to 0.30% C. Comparison of the chemical compositions of the individual carbides with those determined by Shaw and Quarrell is problematical since in a number of cases these authors did not achieve the equilibrium state. The view expressed by H. J. Goldschmidt (Ref. 8: J. Iron St. Inst. 160, 1948, no. 4, 345) and V. Foldyna and J. Wozniak (Ref.9: Hutnické listy 15, 1959, no.1 33) that vanadium has a low solubility in the cementite $M_{\rm q}C$ was found incorrect; the solubility of vanadium in MgC may reach to 7%. In the carbide $M_{2}C_{6}$ the solubility of vanadium is considerably higher (up to 13%) than in the carbide $M_{2}C_{3}$ (up to 6.5%). The solubility of chromium and iron in the carbide $M_{4}C_{3}$ is up to 7% and 5.7%, respectively. The results have shown that there is a strong interaction between components of the system Fe-Cr-V-C and therefore laws that are valid for diluted solutions are inapplicable for this Card 4/6

33197

Equilibrium conditions of ...

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system even at low concentrations of chromium and vanadium. There are 17 figures, 3 tables and 21 references: 7 Soviet-bloc and 14 non-Soviet-bloc. The English-language references read as follows: Ref.2: quoted in text: Ref.4: E. Smith and J. Nutting, J.Iron St.Inst.187, 1957, no.4, 314; Ref.8: quoted in text; Ref.20: K.H.Jack, J.Iron St.Inst.169, 1951, no.1, 26.

ASSOCIATION:

Výzkumný ústav hutnictví Železa, Praha (Iron and Steel Research Institute, Prague)

SUBMITTED:

July 4, 1961

Fig.1. Legend.

Isoconcentration (0.30% C) section through the isothermic (700°C) Fe-Cr-V-C tetrahedron.

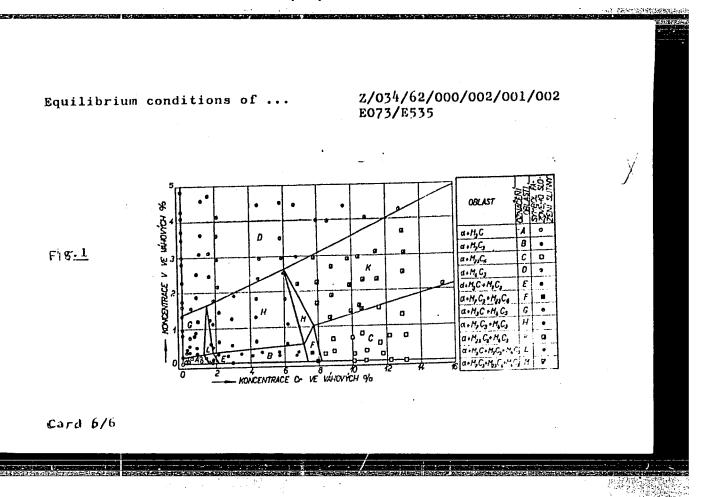
Concentration, wt.% vs. Cr concentration, wt.%

Oblast - phase; označení oblasti - phase designation; symbol fázového složení slitiny - symbol used for

the phase composition of the alloy.

Card 5/6

CIA-RDP86-00513R000413620002-3" APPROVED FOR RELEASE: 06/13/2000



3:715

2/034/62/000/004/001/005

AUTHORS:

Cadek, Josef, Engineer and Freiwillig, Rudolf,

Doctor of Sciences, Engineer

TITLE:

States of equilibrium of iron-rich Fe-Cr-W-C alloys with a carbon content of 0.20% at 700 $^{\circ}\text{C}$

Hutnické listy, no. 4, 1962, 273 - 282 PERIODICAL:

APPROVED FOR RELEASE: 06/13/2000

Present knowledge of carbides and intermetallic phases which may be present in the system Fe-Cr-W-C in a stable form is reviewed in the first part of the paper. The latter part of the paper deals with experimental results based on 198 alloys with carbon contents varying between 0.18 and 0.23%. The experimental alloys were subdivided in accordance with their carbon content. The Mn and Si contents were determined for 180 experimental alloys; whilst the P, S, Ni and Cu contents were determined from 48 samples and the Al content was determined for 20 randomly chosen specimens. The composition of these elements was as follows (%):

Card 1/3

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States of equilibrium ...

Content, %	Mn	Si	P	S	· Cu	Ni	Al
Minimum	0.08	0.02	0.021	0.021	0.14	0.05	0.01
Maximum	0.38	0.34	0.028	0.028	0.17	0.07	0.068
Average	0.18	0.13	0.025	0.02^{l_1}	0.16	0.06	0.02.

The samples were sealed into quartz ampules and annealed for 5 000 hours at 700 ± 3 °C, a time which was ample for achieving an equilibrium state, at least as far as the structure was concerned. The results of phase analyses are plotted in the form of a section of equal concentration (0.20% C) of the isothermal (700 °C) Fe-Cr-W-C tetrahedron in Fig. 1, where the vertical axis gives the tungsten concentration and the horizontal axis gives the chromium concentration, both in wt.%. It can be seen from the diagram that within the investigated range of concentration there were five two-phase regions, A, B, C, D, E, eight three-phase regions, F,G;H,K,L,M, N,O and four four-phase regions, P,R,S,T.

Card 2/4

Z/034/62/000/004/001/005 E073/E335

States of equilibrium

The existence of all these regions, except for the four-phase region P, was experimentally proved. Acknowledgments are expressed to Engineer K. Mazanec, Candidate of Sciences, VU VZKG, Ostrava, for his comments on the experimental results. There are 20 figures and 4 tables.

ASSOCIATION:

Výzkumný ústav hutnictvi zeleza, Praha

(Iron and Steel Research Institute, Prague)

SUBMITTED:

September 14, 1961

<u>Fig. 1 (smaller figure) - Key: 1 - region; 2 - designation of regions; 3 - symbol denoting phase composition of the alloy.</u>

•	4.7%. 25c. b	e+NzJC+MC+NaC	a-Mac-Man Co-MC	E-PaC-MACA Maca	e-140+4	e-172/2-14€C	a·Mg C · Mgs Cg	a-Marg-MC	E-MC+MC	B.M.C.MC	e · MyCo · MyCo	e· rgC · rgC _e	a-M ₆ C	R-AC	r MaG	s. MyCg	r • M₂C ·	OSLAST ()	,
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Card 3/4

Z/034/62/000/007/003/004 E073/E335

AUTHORS: Cadek, Josef, Doctor of Sciences, Engineer,

Freiwillig, Rudolf, Engineer and Sie Si San,

Candidate of Sciences, Engineer

TITLE: Equilibrium states of iron-rich Fe-Cr-Mo-C alloys

with a carbon concentration of 0.35% at 700 °C

PERIODICAL: Hutnické listy, no. 7, 1962, 507 - 516

TEXT: The isoconcentration section through the isothermal tetrahedron Fe-Cr-Mo-C for Cr contents of 0 - 16% and Mo contents of 0 - 10% was determined by means of electrolytic isolation of carbides which were then subjected to radiographic and microchemical analyses. 178 test alloys were used in which the carbon concentration varied between 0.32 and 0.38%, the average being 0.35%. Fig. 1 is the resulting diagram (0.35% C, 700 °C) giving the concentration of Mo in wt.% as a function of the concentration of Cr in wt.%. The letter designation of the areas in the diagram (A - T) as well as the symbols of the phase composition of the alloys are given in Table 4. Table 5 gives the chemical and phase compositions of the alloys for which no Card 1/#

Z/034/62/000/007/003/004 E073/E335

Equilibrium states of

equilibrium state was reached after annealing for 10 000 and even 15 000 hours. The relatively low solubilities of Mo in M₂C cementite (limit concentration not in excess of 1.2%) and of Mo in M₂C₃ carbide were confirmed. The maximum concentration of Mo in M₂C₆ was 11% and did not reach a value corresponding to the ideal composition of Fe₂₁Mo₂C₆ (composition of the metastable M₂₃C₆ carbide in a ternary Fe-Mo-C alloy). Since Mo lowers the minimum concentration of Cr at which M₂₃C₆ is formed, the Cr concentration in the carbide M₂₃C₆ of this type of alloy can vary within wide limits. Even a very low chromium concentration suppresses, or at least strongly retards, the formation of MC carbide. In the investigated range of Cr and Mo concentrations, the n phase does not exist in a stable form. In earlier investigations of carbide precipitation in Cr-Mo steels at 650 °C and in studies of the structural changes

Card 2/5 3

2/034/62/000/007/003/004 E073/E335

Equilibrium states of

in Fe-Cr-Mo-C alloys with 12% Cr and 8% Mo, no precipitation of the 4 phase was retected in the temperature range 500 - 800 °C. Mowever, the stable existence of 1/2 was detected. There are 14 figures and 6 tables.

ASSOCIATION:

Výzkumný ustav hutnictví zeleza, Praha

(Research Institute for Iron-mining, Prague)

SUBMITTED:

August 26, 1961

Table -.

Key - 1 - Zone

2 - Zone designation

3 - Symbol used for the phase composition

of the alloy

Card 3/6 3

Z/034/62/000/008/002/004 E073/E535

AUTHORS:

Yadek, J., Engineer, Dupal, O. Doctor of Science and

Traiwillie, R. Engineer

TITLE:

Precipitation of carbides in alloy steels.

Part I. Precipitation of carbides during tempering of

chromium-molybdenum steels at 650°C

PERIODICAL: Hutnické listy, no.8, 1962, 573-580

TEXT: This and the succeeding parts of the study relate to the precipitation of carbides in chromium-molybdenum, chromium-tungsten and chromium-vanadium steels at 650°C in the case of tempering for periods between 6 min and 5000 hours, as well as for the case of isothermal decomposition of austenite and annealing at the same temperature for periods up to 5000 hours of the products of this decomposition. In this first part the results relating to fifteen chromium-molybdenum steels with compositions as given in Table 1 are reported. The results of studies of the precipitation of the carbide M_2C and the reaction $M_2C \rightarrow M_6C$ were the subject of earlier work (Hutnické listy, 16, 1961, no.12, p.37½), where the precipitation of the carbides in some of the Card $1/\frac{h}{2}$

Z/034/62/000/008/002/004 E073/E535

fifteen steels (CM2, CM5, CM9, Cm10 and CM12) studied in this paper was also reported. The carbides were isolated electrolytically and then subjected to X-ray diffraction and chemical The most frequently observed carbides, particularly analyses. in the case of high alloyed steels, were $M_{23}C_6$ and M_6C . This is attributed to the tendency of chromium and molybdenum to form in Fe-Cr-Mo-C alloys carbides which are characteristic for Fe-Cr-C and Fe-Mo-C alloys, although they are distinguished by a sufficiently high solubility of iron and of the other element (Mo or Cr), but not to form carbides M_C or MC, which have a low solubility for molybdenum and possibly also for chromium and iron. The carbide M₂₃C₆ may contain only 11.2% Cr and 5.2% Mo and even less or, on the other hand, it may contain up to 11.5% or even more of molybdenum; the chromium concentration in $M_{\tilde{G}}C$ may be as high as 9%. Even a very slight addition of chromium into molybdenum steels causes a radical slowing down, or completely suppresses, the formation of MC carbide. In the equilibrium state the solubility of molybdenum in M₂C₃ is only about 2% but in the metastable state it may reach 10%; molybdenum reduces the rate of Card 2/4

Z/034/62/000/008/002/004 E073/E535

the reaction $M_2C \rightarrow M_2^2C_3$. At chromium concentrations of up to 1.5-2% the stability of the carbide M_2C is only slightly affected by the chromium content; however, at higher concentrations chromium reduces the stability of MoC. The iron concentration in M_oC may reach about 10% and in some cases it may reach 27%. The Ehromium concentration may reach 22%. The view is widely held that if the solubility of a given element in a given carbide is less than the concentration of this element in the solid solution, the carbide may accept the given element in a concentration not higher than the concentration in the solid It was found that this view is not generally valid, for instance, M.C which precipitates during 6 min tempering in the steel CM7 (1.15% Mo and 4.2% Cr) contained 5.3% Mo and 2.6% Cr; the authors could not explain this phenomenon. Neither the precipitation of the intermetallic Laves phase Fe₂Mo nor the formation of a quaternary carbide could be proved for any of the steels investigated; all the carbides which precipitated and which existed in the stable state were derived from carbides of the appropriate binary or ternary sub-systems. There are 16 figures and 3 tables. Card 5/4

z/034/62/000/008/002/004

ASSOCIATION: Výzkumný ústav hutnictví železa, Praha (Iron and Steel Research Institute, Prague)

Steel

1		Comp		Ra	tio-			
	С	Mn	Si	Cr	Mc	\$cr	lu.	
CM1 CM2 CM3 CM4 CM5 CM6 CM7 CM8 CM9 CM10 CM11**)	0,37 0,33 0,39 0,38 0,30 0,47 0,42 0,36 0,39 0,41 0,37 0,25	0,21 0,26 0,46 0,20 0,21 0,38 0,39 0,34 0,49 0,31 0,27 0,28 0,28	0.02 0.04 0.02 0.10 0.04 0.42 0.43 0.30 0.32 0.25 0.33	1,35 1,50 1,63 1,65 1,69 4,51 4,22 4,74 4,28 4,25 4,39 4,57 12,56	0,48 0,92 1,97 3,29 5,70 0,56 1,15 2,13 3,55 5,45 6,62 5,77	0,842 1,050 0,963 1,001 1,301 2,215 2,321 2,957 2,532 2,394 2,740 4,215 4,819	0,162 0,341 0,632 1,083 2,375 0,149 0,331 0,714 1,137 1,662 2,240 2,885 0,417	

$$E_{MO} = \frac{at.\% Mc}{at.\% C}$$

** Austenization temperature 1250°C

Card 4/4

FREIWILLIG, Rudolf; CADEK, Josef; BRONEC, Josef

Kinetics of decarburization of cold rolled silicon steel transformer sheets in the H2-H2-H20 and CO-CO2-H2-H2-H2O atmospheres. But listy 16 no.9:645-651 S 161.

1. Vyzkumny ustav hutnictvi zeleza, Praha.

10

Z/034/62/000/009/001/007 E073/E535

AUTHORS: Cadek, Josef, Engineer, Candidate of Science and

Freiwillig, Rudolf, Engineer

TITLE: Precipitation of carbides in alloy steels.

Part II. Precipitation of carbides during tempering of

chromium-tungsten steels at 650°C

PERIODICAL: Hutnické listy, no.9, 1962, 648-655

TEXT: In Part I of this paper (Hutnické listy, no.8, 1962, 573-580) the results were described of carbide precipitation studies in fifteen chromium-molybdenum steels, tempered at 650°C for periods between 6 min and 5000 hours. This second part contains results of carbide precipitation studies under the same conditions of thirteen chromium-tungsten steels with compositions, Table 1, such that these steels can be considered as pure quaternary Fe-Cr-W-C steels. Results: The presence of chromium in tungsten steels extends the range of W concentration in which M₆C may form as a transient phase. This may be due to the widening of the range of stable existence of this carbide by chromium. In Cr-W steels M₆C may occur during tempering, either as a stable or metastable phase without preliminary deformation of the transient Card 1/4

Z/034/62/000/009/001/007 E073/E535

carbide M₂C. The presence of W in Cr steels extends considerably the range of concentration in which the carbide $\rm M_{23}C_6$ can form and exist in a stable manner; the Cr and W concentrations in the carbide M23C6 may vary within wide limits. M23C6 and M6C are the most frequently observed carbides in Cr-W steels, particularly in high alloyed ones. This is caused by the tendency of the Cr and W to form in Fe-Cr-W-C alloys carbides which are specific to Fe-Cr-C and Fe-W-C alloys but are characterized by a sufficient solubility of the second element (W or Cr) and of iron. However, there is no tendency to form the carbides M₂C₃ and MC, which have a low solubility for tungsten, chromium and iron. Even a small addition of Cr into W steels leads to a drastic slowing down or complete supression of formation of the carbide MC. The solubility of tungsten in M₂C₂ is only about 1.5% in the equilibrium state but in the metastable state the W concentration in M₂C₂ carbides may be much higher, since it can be considerably higher than the W concentration in the solid solution, reaching at least 5.3%. the $M_{\chi}C$ cementite, present in the metastable state, the W and probably also the chromium concentrations may be considerably higher than the equilibrium level with the ferrite of tungsten or chromium steels and, Card 2/4

3

Precipitation of carbides

Z/034/62/000/009/001/007 E073/E535

simultaneously, the concentration of these elements in M2C may be higher than in the mother solid solution; the causes of this phenomenon cannot be explained. In the initial stages of its existence, MoC may contain high concentrations of iron and chromium; the latter hardly increases at all the stability of M2C at low concentrations and probably increases slightly at higher concentrations. In Cr-W steels M₂C is considerably less stable than in Cr-Mo steels. In none of the studied steels could the precipitation of the Laves phase FegW be proved and this fact is explained by the strong influence of the C content on the minimum W concentration (in the case of a chromium concentration of about 12%) at which this phase can exist. All the carbides that precipitate and exist in a stable manner in the studied steels are derived from . carbides of the appropriate binary and possibly ternary sub-systems. Thus, the conclusion of Kuo (J. Iron Steel Inst.185, 1957, no.3, p.297) was confirmed that no quaternary carbide exists in Fe-Cr-W-C alloys. There are 12 figures and 3 tables.

ASSOCIATION: Card 3/4

Výzkumný ústav hutnictví železa (Iron and Steel Research Institute)

Z/034/62/000/009/001/007 E073/E535

SUBMITTED:

September 16, 1961

Table 1

Steel

Chemical	composition,%	Ratio		
		•		
C Mn	SI CE W LCC	tw.		

	С	Mn	81	Cr	W	é Cr	ŧw -
CW1 CW2 CW3 CW4 CW5 CW7 CW8 CW7 CW8 CW10 CW11 CW12 CW12	0,41 0,40 0,38 0,43 0,42 0,40 0,41 0,43 0,43 0,41 0,51 0,60 0,59	0,45 0,20 0,38 0,38 0,38 0,32 0,45 0,67 3,38 0,38 0,27 0,57	0,09 0,03 0,04 0,05 0,23 0,03 0,13 0,23 0,14 0,14 0,12 0,16 0,07	0,85 1,62 1,61 1,99 1,70 1,75 4,46 4,28 4,22 4,33 12,46 12,53 11,83	0,66 0,53 1,17 2,58 5,38 10,29 1,17 2,64 4,87 9,60 3,02 5,30 9,70	0,48 0,91 0,98 1,02 0,93 1,01 2,52 2,20 2,37 2,44 5,64 4,82 4,51	0,11 0,03 0,20 0,30 0,84 1,68 0,19 0,38 0,74 1,53 0,79 0,58 1,07

$$\pi \xi Cr = \frac{at.\% Cr}{at.\% C}$$

$$W = \frac{at.\% W}{at.\% C}$$

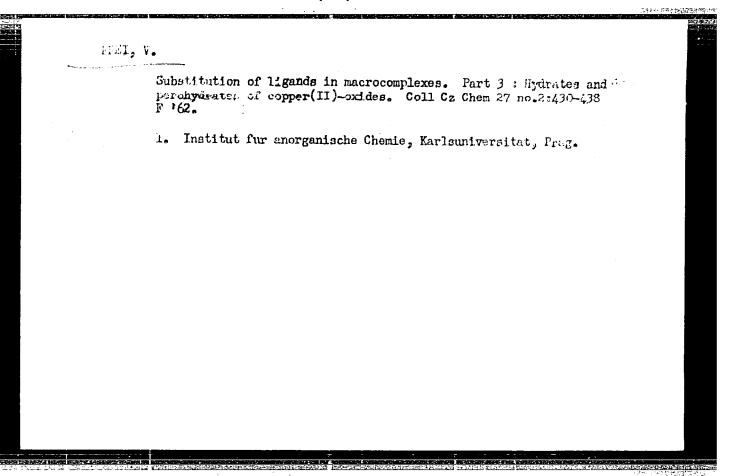
Card 4/4

FREIWILLIG, R., inz.

"Carbides and intermetallic phases in steels"by L.Brhacek, V.Mayer, H.Tuma. Reviewed by R.Freiwillig. Hut listy 19 no.10:757-758 0 '64.

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3

T/EWP(t)/ETI IJP(c) L 34431-66 SOURCE CODE: CZ/0034/65/000/011/0796/0800 ACC NR: AP6026199 AUTHOR: Freiwillig, Rudolf--Freyvillig, R.; Cadek, Josef--Chadek, I.; Tykal, Kamil ORG: Research Institute of Ferrous Metallurgy, Prague (Vyzkumny ustav hutnictvi zeleza) TITLE: Recrystallization of selected grades of Czechoslovak steels. I. Recrystallization diagrams of steels CSN 17021 and CSN 17041 SOURCE: Hutnicke listy, no. 11, 1965, 796-800 TOPIC TAGS: metal recrystallization, steel, cold rolling/CSN 17021 steel, CSN 17041 steel ABSTRACT: (Recrystallization kinetics was investigated in cold rolled CSN 17021 and CSN 17041 steels on specimens with 5-8% reduction in the 650-750°C temperature range and with 30 sec.-2 hrs. annealing times. The results were plotted on thermokinetic diagrams from which the relations of the main parameters of the process annealing can readily be determined, that is, the relations of the annealing temperature and time and the degree of reduction. Suitable combination of those basic parameters makes possible the optimum technique of heat treatment for the grades considered. Orig. art. has: 6 figures and 2 tables. [Based on authors' Eng. abstract] [JPRS: 33,732] SUB CODE: 11. 13 / SUBM DATE: none / SOV REF: 006 / OTH REF: 005 Card 1/1 1/2 UDC: 620.192.4: 669.1.017



FREI, V.

CZECHOSLOVAKIA

no academic degree indicated

Institute for Inorganic Chemistry, Charles University (Institut fur Anorganische Chemie, Kurlsuniversitaet), Prague.

Frague, Collection of Czechoslovak Chemical Communications, vol 27, No 10, Oct 62, pp 2450-2453.

"Polarimetric and Spectrophotometric Definition of the Third and Fourth Dissociation Constant of Tartaric Acid."

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3

"Establishing and maintaining sounding stations."

Gazeta Obserwatora. P.I.H.M., Warszawa, Vol 7, No 3, Mar. 1954, p. 6

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

<u>1 25181-65</u> AGCESSION NR: AF5025933

02/0017/65/054/005/0234/0240

AUTHOR: Brazda, Miroslav (Engineer); Frojtich, Zdenek (Engineer); Mikulik, Miloslav (Doctor)

TITLE: Programming Method for the Evaluation of Electrical Machines Using Standard Blocks

SOURCE: Elektrotechnicky obzor, Vol 54, Nr 5, 1965, pp 234-240

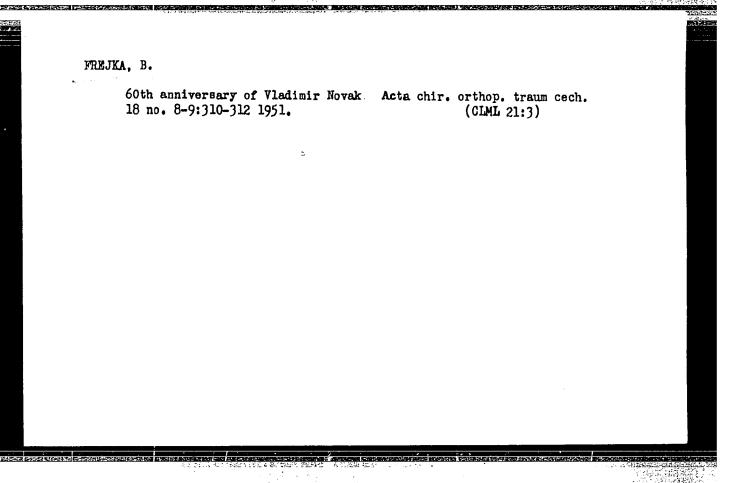
ABSTRACT: (Authors' Russian and English summarids, modified): The article describes an easy method of setting up evaluation programs for rotary electrical machines using the standard blocks method. The procedure is illustrated on the example of a block design and evaluation of an M-shaped stator slot which is in turn employed in the evaluation program for a double-squirrel case 6000 V induction motor, and in a simplified manner in the check-out program for the same motor. Orig. art. has: 6 figures.

ASSOCIATION: Vyzkumny a vyvojovy ustav elektrickych obrodu bocivych. Pruo (Research and Development Institute of Rotary Electrical Machinery)

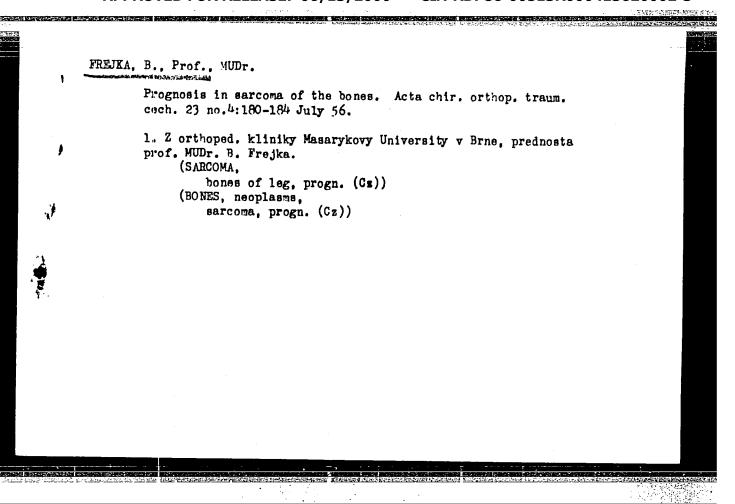
SUBMITTED: 10Feb65 NO REF SOV: 001 ENCL: 00 OTHER: 009 GUB CODS: NI, PF

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1/1



"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3



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FREJKA, B.; FAIT, M.

Growth stimulation in a shorter extremity. Acts chir. orthop. treum. cech. 25 no.4:268-275 July 58.

1. Ortopedicka klinika v Brne. B. F., Masova 10, Brno
(LEO, abnormalities,
length inequality, growth stimulation (Cz))
(GROWTH,
stimulation in leg length inequality (Cz))
```

TKEUKH D

KRAMARENEO, G.N., kand.med.nauk; NECHAYEVA, Z.P.; TKACHENKO, S.S.; OSNA, A.I., dotsent; KURILO, A.A.; MEZHENINA, Ye.P., kand.med.nauk; KRYUK, A.S., kand.med.nauk; FREYKA, B., prof.

Reports on meetings of societies of traumatologists and orthopedists. Ortop.travm.i protex. 20 no.9:80-93 S '59. (MIRA 13:2) (ORTHOPEDIC SOCIETIES)

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Prevention of congenital hip dislocations. Ortop.travs. i protes. 20 no.6:55-59 Je '59.

(HIP, dislocations, congen., prev. (Rus))
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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3"

Transportation and the control of th

TREATER B.

Methods of diagnosis and therapy of congenital hip dislocation at the orthopedic clinic in Brno. Acta chir. orthop. traum. cech. 26 no.5-6:381-393 Nov 59.

(HIP, fract. & disloc.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3"

FREJKA, B.; FAIT, M.; LITZMAN, O.; FREJKOVA, M.

Measurement of anterior torsion of the femur. Description of the method used at the orthopedic clinic in Brno. Acta chir. orthop. traum. cech. 26 no.5-6:400-408 Nov 59.

1. Ortopedicka klinika university v Brne, prednosta prof. dr. lek. ved. B. Frejka.

(HIP, fract. & disloc.)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3

FREJKA, B.: KOVANDA, M.

Surgical therapy of congenital hip dislocation. Acta chir. orthop. traum. cech. 26 no.5-6:523-541 1959.

1. Ortopedicka klinika university v Brne, prednosta prof. dr. B. Frejka. (HIP, fract. & disloc.)

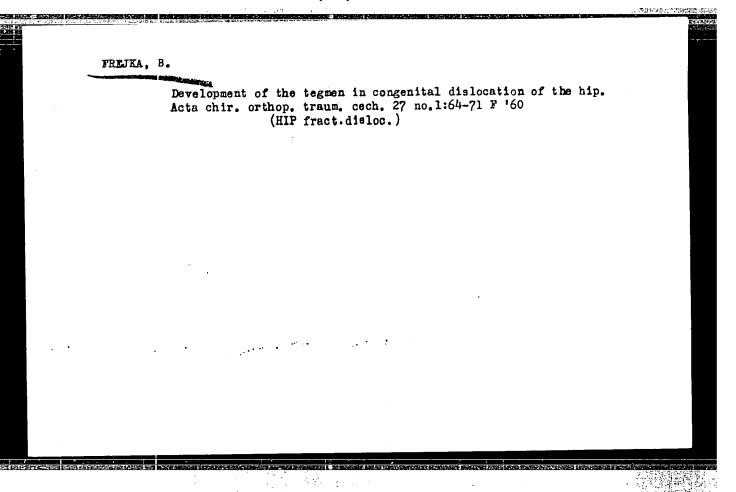
FREJKA, B.; KOSINKA, B.

Preliminary report on the control of luxation of the hip treated by means of conservative methods. Acta chir. orthop. traum. cech. 27 no.1:44-56 F '60

(HIP fract. & disloc.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620002-3



FREJKA, B.

70th anniversary of Prof. Vladimir Novak, MD. Acta chir.orthop.traum. eech. 28 no.5:389-392 0 61.

(BIOGRAPHIES)

FREJKA, B.

The origin and prevention of scoliosis. Acta chir. orthop. trauma. Cech. 29 no.1:44-54 F 62.

1. Ortopedicka klinika University J. Ev. Purkyne v Brne, predn. prof. MUDr. B. Frejka, Dr. Sc.

(SCOLIOSIS)

FREJKA, B.

Necrosis of the head of ferry following traumatic dislocation. Acta chir. orthop. traum. cech. 29 no.2:117-118 162.

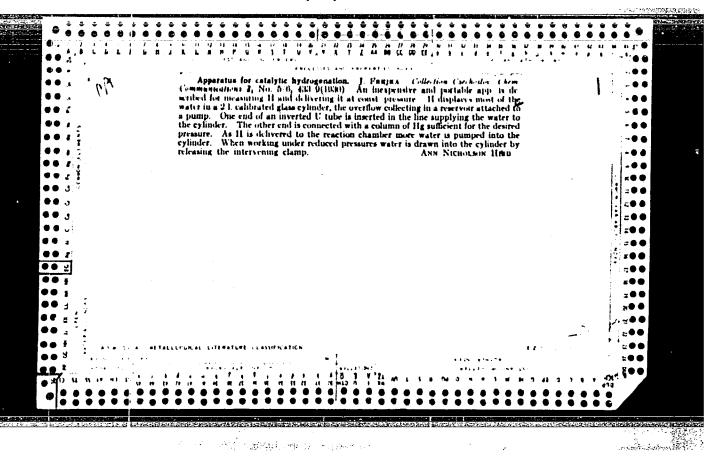
(FEMUR HEAD tract & disloc)

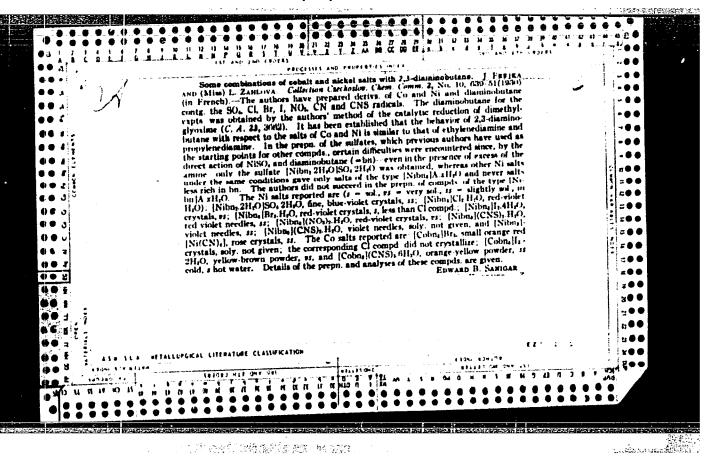
FREJKA, B.

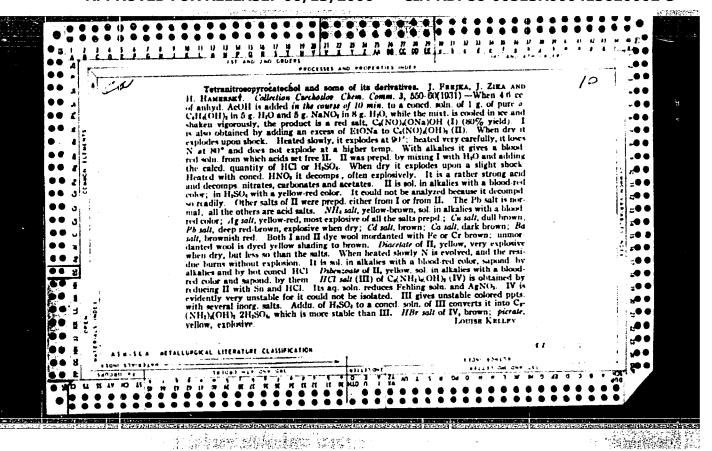
Stiffness of the shoulder joint. Acta chir. orthop. traum. Cech. 32 no.1:8-11 F'65.

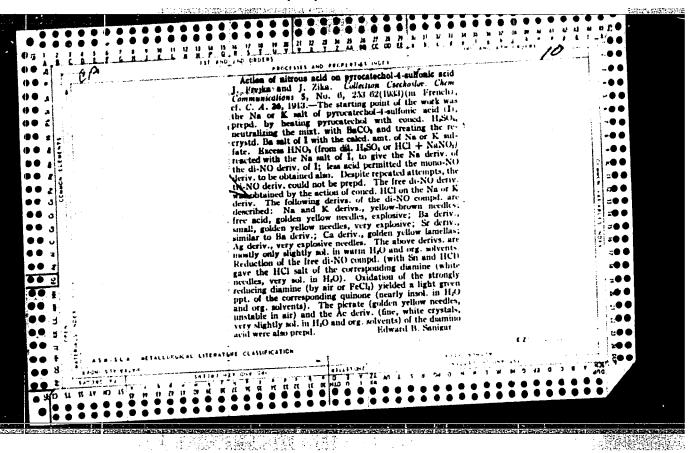
1. Ortopedicka klinika lekarske fakulty University J.E. Purkyne v Brne (prednosta: prof. dr. M. Janecek, CSc.).

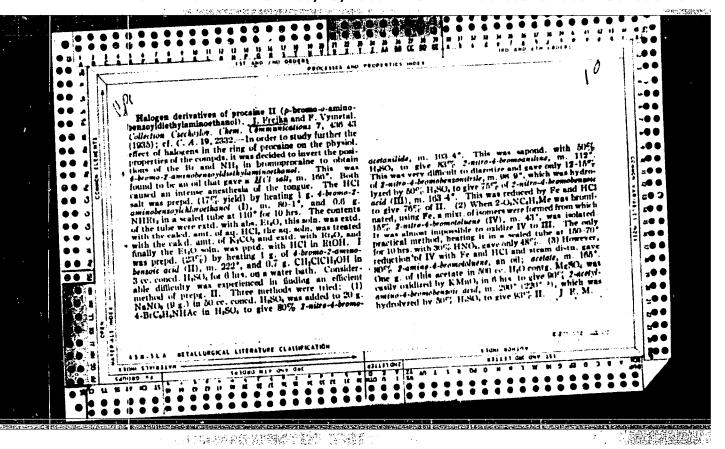
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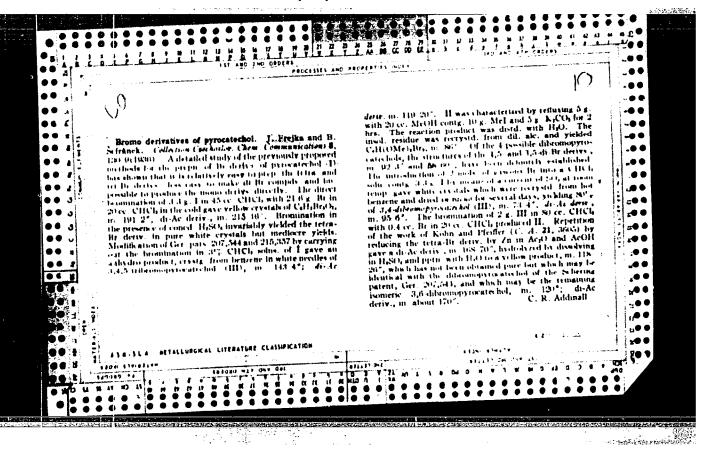


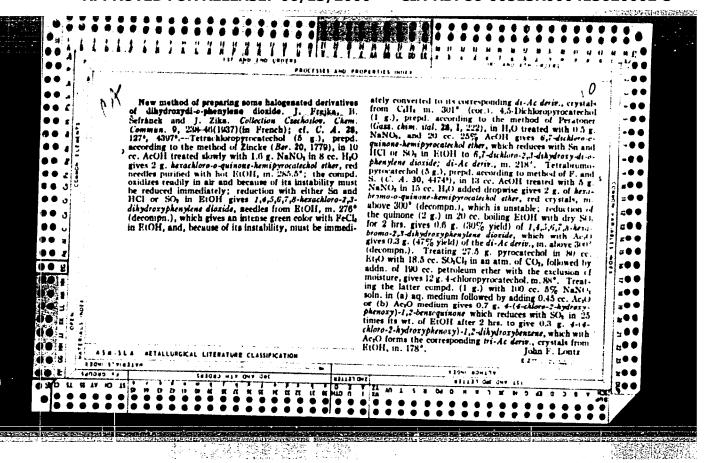


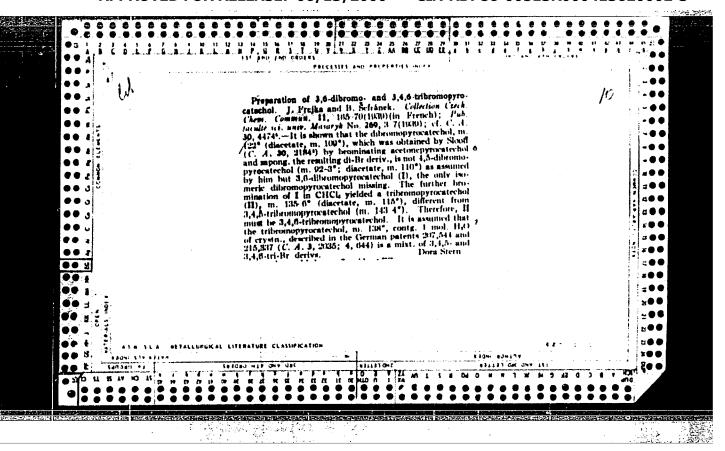


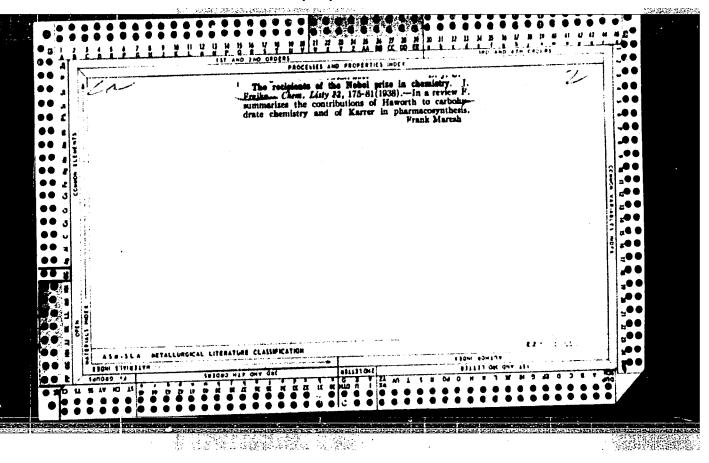


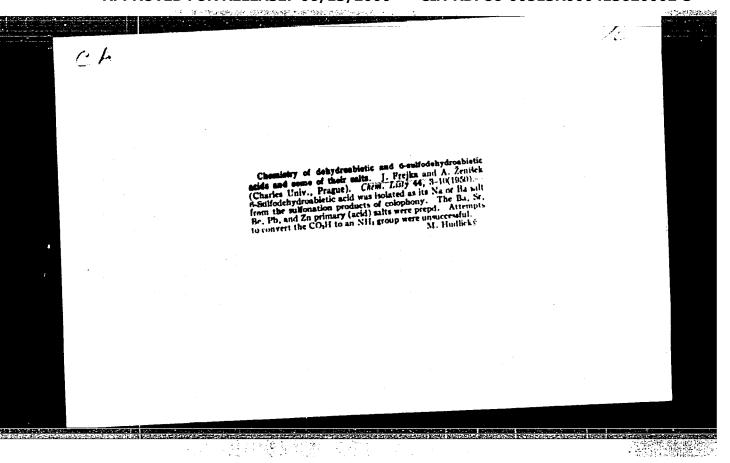








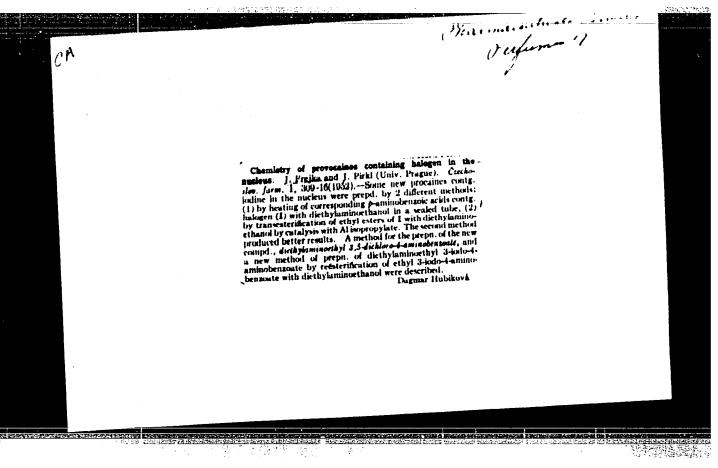




FREJKA, J.; ZAMIS, H.

Synthesis on the nucleus of halogeneted ephedrine. Cas.cesk.lek.

Ved.prihola 63 no.9-12:157-158 Dec 1950. (CIML 20:9)



- FREJEH, JOSEF

CZECHOSLOVAKTA/Chemical Technology - Chemical Products and H-15

Their Application. Industrial Organic Synthesis.

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 26044

Author : Ciernik Jan, Frejkn Josef

Inst: Title: Preparation of N-Vinyl Phthalimide by Pyrolysis of

Esters of Beta-Phthalimidoethanol.

Orig Pub : Chem. prumysl, 1957, 7, No 6, 326-328

Abstract : Pyrolysis was conducted in a quartz tube filled with

porcelain Raschig rings. A study was made of the yield of N-vinyl phthalimide (I) depending on temperature and rate of feed of reactant. Optimal condition of pyrolysis of beta-phthalimido-ethyl acetate: temperature 550-600°, rate of feed 6.9 . 103- g/cc per minute, degree of conversion 100%, yield of I 94%. It is recommended

to conduct pyrolysis of a solution of the acetate in

glacial CH₂COOH.

Card 1/2

Trejha, sost

CZECHOSLOVAKIA/Chemistry of High Molecular Substances.

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34963.

: Jan Čiernik, Ludvik Ambrož, Josef Frejka. Author

: Not given. Inst

: Polymerication of N-vinylphthalimide. Title

Orig Pub: Chem. prumyul, 1957, 7, No 9, 509-511.

Abstract: The polymerization of N-vinylphthalimide in ethyl

acetore and acetate was studied and the effects of the temperature, the monomer concentration and the initiator (benzoyl peroxide) on the reaction rate were determined. The initiation is produced not only by peroxide radicals, but also thermally. The general polymerization rate V, the initiator concentration I and the monomer concentration M are con-

: 1/2 Card

2/

Synthetic Organic G-2 CZECHOSLOVAKIA / Organic Chemistry. Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77712.

: Frejka, J. and Wiesner, I. Author

: Not given. Inst

: Reactions of Tetraalkoxysilanes with n-Bromobutanol. Title

Orig Pub: Chem Listy, 51, No 12, 2369-2371 (1957) (in Czech).

Abstract: The yields and composition of the products ob-

tained from the reaction of tetraethoxysilane (I) with C4 H9 Br /sic7 at 200-5000 have been investigated. It has been found that the reaction mixture contains $(C_2 H_5 O)_3 SiOC_4 H_9) (C_2 H_5 O)_2 Si-$ (OC4 H9)2, C2 H5 OSI(OC4 H9)3, and I. The pyrolysis of I in the same temperature range yields ether [sic7 (0.5-3%). Similar reactions are observed with tetramethoxysilane and triethoxypropanoxysil-

ane. -- J. Kovar.

Card 1/1

35

CZECHOSLOVAKIA / Organic Chemistry--Synthetic organic chemistry. (

G→2

Abs Jour

: Ref Zhur - Khimiya, No 14, 1959, No. 49578

Author

: Frojka, J.; Wiesnor, I.

Inst

: Not givon

Titlo

: The Reaction of Tetraalcoxysilanes with n-Butylbromide

Orig Pub

: Collection Czochoslov Chow Commun, 23, No 10, 1984-1987

(1958)

Abstract

: Soo RZhKhim, No 23, 1958, 77712

Card 1/1

G-20

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81704.

Author : Kratochvil M , Frejka J.

Inst

Title : The Reaction Between Silicon Tetrachloride With

Tetrahydrofuran.

Orig Fub: Chem. listy, 1958, 52, No 1, 151-152.

Abstract: By the reaction of SiCly with tetrahydrofuran (I)

in the presence of catalytic amount of concentrated HCl, tetra/kis-/*(4-chlorobutoxy)-silane (II) is formed, together with 1-chlorobutanol-4, and a mixture of chlorobutoxy silanes. After boiling 1.25 moles of I with 0.25 moles of SiCl 4 and 1 ml of concentrated HCl for 6 hours, an additional 0.5 moles of I is added to the mixture with intensive cooling.

Card : 1/2

*[sic]

36

CZECHOSLCVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81639

Author : Kratochvil M., Frejka J

Inst Title

: The Preparation of the Acid Chloride, 3-CHlorotetrahydro-

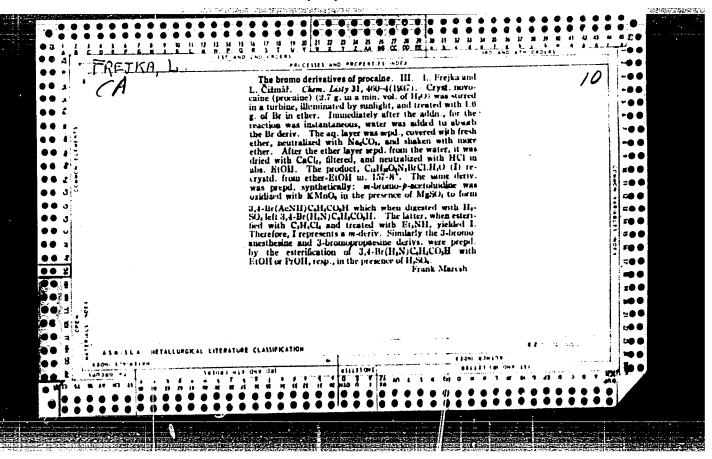
furfuryl Acetic Acid

Orig Pub: Chem. 11sty, 1958, 52, No 1, 152-153.

Abstract: The acid chloride (II) of 3-chlorotetrahydrafurfuryl

acetic acid (IIa) was obtained by the reaction of 2,3-dichlorotetrahydrofuran (I) with ketone in the presence of 0.1% anhydrous ZnCl.. The catalyst in the amount of >5% leads to the polymerization of I. Once more 0.5 moles of I is passed through the reaction column with the addition of 0.01 grams of calcined ZnCl dissolved in 20 ml ether at 30°C and

Card : 1/2



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Measurement of anterior torsion of the femur. Description of the method used at the orthopedic clinic in Erno. Acta chir. orthop. traum. cech. 26 no.5-6:400-408 Nov 59.

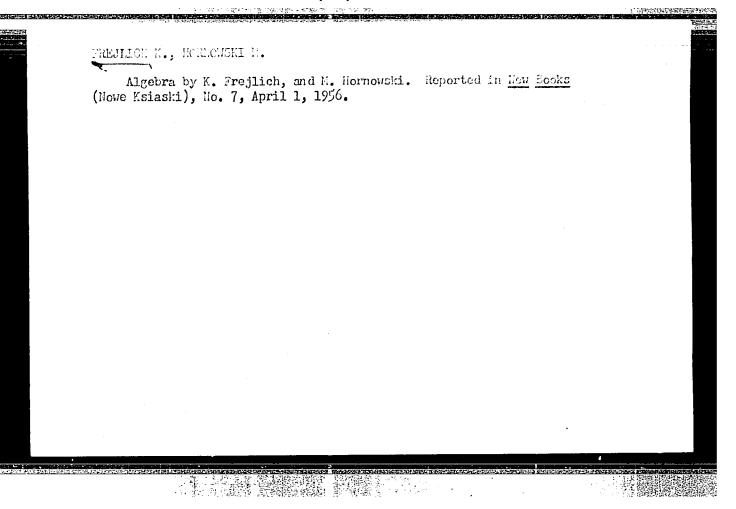
Ortopedicka klinika university v Brne, prednosta prof. dr. lek. ved.
 Frejka.
 (HIP, fract. & disloc.)

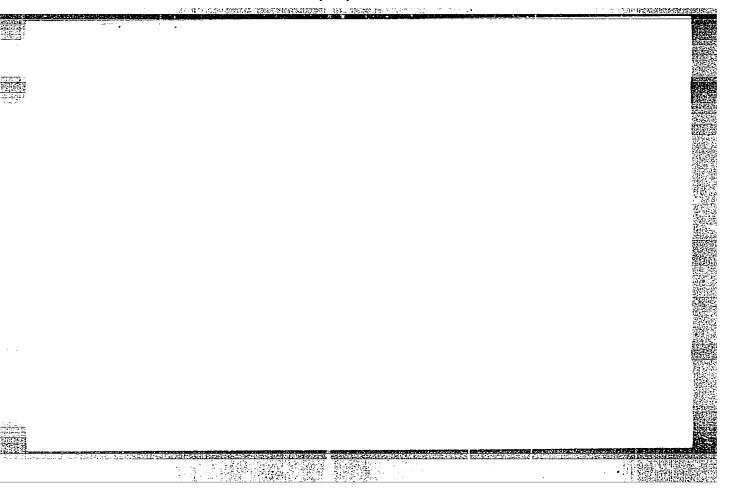
L. FREJKOVA-LITZMANOVA

"A contribution to studies of the morphology of the Cretaceous area in the environs of Brezova nad Svitavou."

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1. Head, Department of Crenes and Lifting Equipment, Central Building Equipment Designing Office, Warsaw (for Rytel). 2. Senior constructor, Central Building Equipment Designing Office, Warsaw.

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1. Geologicky ustav, Ceskoslovenska akademie ved.

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1. Prirodovedecka fakulta Karlovy university; Geologicky ustav, Geskoslovenska akademie ved.